# Control solutions for cold rooms with on-board moto-condensing unit





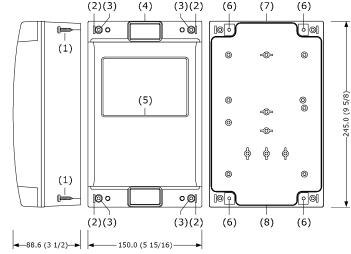


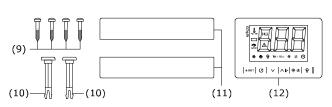
- Power supply 230 VAC.
- Incorporated clock (according to the model). Cabinet probe and evaporator probe (PTC/NTC)
- Compressor relay 16 A res. @ 250 VAC or 30 A res. @ 250 VAC (according to the
- Alarm buzzer Incorporated Bluetooth Low Energy sensor (according to the model)
- TTL MODBUS slave port for EVconnect APP or BMS.

Measurements in mm (inches); to be fitted on-board, fixing screws not provided.

make sure to have a junction for rigid tube; the maximum diameter of the fixing hole must be 28.5 mm (1 1/8 in)

to ensure the degree of protection IP65 of the whole covering, install the device using the appropriate holes only





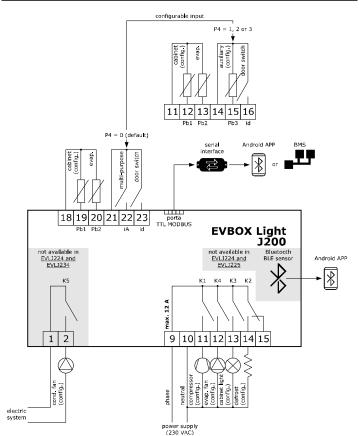
- Fasten the back shell (7) to the wall with 4 screws (1) using the proper holes (6)
- Make sure the gasket (8) is into the proper seat.
- Lean the front shell (4) against the back shell (7) and insert the 2 fastening tabs (10) thoroughly in the proper holes (2) on the right-hand side or the left-hand side of the
- Fasten the controller (12) pushing it from the front into the proper seat (5).
- If the connecting cables come from above, drill a hole having a diameter suitable to fix a junction for rigid tube on the upper part of the back shell (7); if vice versa the cables come from below, drill the hole on the lower part of the shell.
- Screw the junction for rigid tube to the back shell (7).
- Connect the controller (12) as shown in the section ELECTRICAL CONNECTION getting the cables to pass through the junction for rigid tube.
- Fasten the front shell (4) against the back shell (7) with 4 screws (9) using the proper holes (3).
- Fasten the cover caps (11) on the upper part and on the lower part of the front shell (4)

# INSTALLATION PRECAUTIONS

- Ensure that the working conditions are within the limits stated in the TECHNICAL SPECIFICATIONS section
- Do not install the device close to heat sources, equipment with a strong magnetic field, in places subject to direct sunlight, rain, damp, excessive dust, mechanical vibrations or shocks.
- In compliance with safety regulations, the device must be installed properly to ensure adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to need the aid of a tool to remove them.

## 2 ELECTRICAL CONNECTION

Use cables of an adequate section for the current running through them To reduce any electromagnetic interference connect the power cables as far away as possible from the signal cables.



## PRECAUTIONS FOR ELECTRICAL CONNECTION

- If using an electrical or pneumatic screwdriver, adjust the tightening torque
- If the device has been moved from a cold to a warm place, the humidity may have caused condensation to form inside. Wait about an hour before switching on the
- Make sure that the supply voltage, electrical frequency and power are within the set limits. See the section TECHNICAL SPECIFICATIONS.
- Disconnect the power supply before doing any type of maintenance
- Do not use the device as safety device.
- For repairs and for further information, contact the EVCO sales network

## FIRST-TIME USE Install following the instructions given in the section MEASUREMENTS AND

- The test normally takes a few seconds, when it is finished the display will switch off.
  - Configure the device as shown in the section Setting configuration parameters

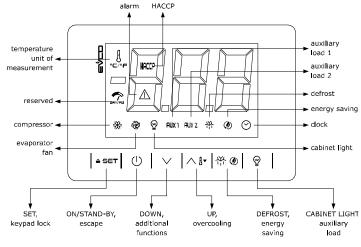
		Kecomi	nended configuration parameters for his	t-time use.
:	PAR.	DEF.	PARAMETER	MIN MAX.
	SP	0.0	setpoint	r1 r2
'	PO	1	probe type	0 = PTC $1 = NTC$
	P2	0	temperature unit of measurement	0 = °C 1 = °F
	d1	0	defrost type	0 = electric 1 = hot gas
				2 = compressor stopped

Then check that the remaining settings are appropriate; see the section CONFIGURATION PARAMETERS.

- Disconnect the device from the mains.
- Make the electrical connection as shown in the section ELECTRICAL CONNECTION without powering up the device.
- For the connection in an RS-485 network connect the interface EVIF22TSX or  ${\it EVIF23TSX, to activate real time functions in EVLJ224 and EVLJ225 connect the module} \\$ EVIF23TSX, to use the device with the Android APP EVconnect connect the interface EVIF25TBX (or use EVLJ234 or EVLJ235); see the relevant instruction sheets.

# If EVIF22TSX or EVIF23TSX is used, set parameter bLE to 0.

# 4 USER INTERFACE AND MAIN FUNCTIONS



# Switching the device on and off

If POF = 1 (default), touch the ON/STAND-BY key for 2s

If the device is switched on, the display will show the P5 value ("cabinet temperature" default);

if the dis	splay shows an alarm cod	e, see the section <i>ALARM</i>	S.			
LED	ON	OFF	FLASHING			
*	compressor on	compressor off	<ul><li>compressor protection active</li><li>setpoint being set</li></ul>			
@	evaporator fan on	evaporator fan off	evaporator fan stop active			
୍ର	cabinet light on	cabinet light off	cabinet light on by digital input			
AUX 1	auxiliary function 1 on	auxiliary function 1 off	auxiliary function 1 on by digital input     auxiliary function 1 delay active			
AUX 2	auxiliary function 2 on	auxiliary function 2 off	auxiliary function 2 on by digital input     auxiliary function 2 delay active			
*	defrost or pre-drip active	=	- defrost delay active - dripping active			
0	- energy saving active - low consumption active	-	-			

(2)	view time	=	set date, time and day of the
$\mathbf{O}$			current week
£ .	view temperature	-	overcooling or overheating active
НАССР	saved HACCP alarm	-	new HACCP alarm saved
lack	alarm active	-	-

If Loc = 1 (default) and 30s have elapsed without the keys being pressed, the display will show the "Loc" label and the keypad will lock automatically.

Touch a key for 1s: the display will show the label "UnL"

### Set the setpoint (if r3 = 0, default) 4.3

IECK	tilat	tile keypau	1311 t	iockeu.		
	1 i		ı			
	ш	<b>≙</b> SET		Touch th	ne SET	key.

		Touch the SET key.
2.	√	Touch the UP or DOWN key within 15s to set the value within the limits r1 and r2 (default "-40 50")
3	Lager	Touch the SET key (or do not operate for 15s)

## Activate manual defrost (if r5 = 0, default)

Check that the keypad is not locked and that overcooling is not active

Touch the DEFROST key for 2s.

If P3 = 1 (default), defrost is activated provided that the evaporator temperature is lower than the d2 threshold.

## Cabinet light on/off (if u1c... u5c = 5)

 $\odot$ Touch the CABINET LIGHT key.

## Button-operated load on/off (if u1c... u5c = 10 or 11) 4.6

Touch the CABINET LIGHT key (for 2s if u1c... u5c = 5).

If u1c... u5c = 6, the **demisting** switch on for the u6 duration.

## 4.7 Silence buzzer (if u9 = 1, default) Touch a key.

If u1c... u5c = 11 and u4 = 1, the alarm output is deactivated.

## 5.1 Activate/deactivate overcooling and overheating Check that the keypad is not locked.

Touch the UP key for 2s.

FUNCTION	CONDITION	CONSEQUENCE
overcooling	r5 = 0 and defrost not	the setpoint becomes "setpoint -
	active	r6", for the r7 duration
overheating	r5 = 1	the setpoint becomes "setpoint +
		r6", for the r7 duration

## Activate/deactivate energy saving in manual mode (if r5 = 0) that the keypad is not locked.

Touch the DEFROST key.

The setpoint becomes "setpoint + r4", at maximum for HE2 duration.

## 5.3 Activate the high or low humidity functions (if F0 = 5) Check that the keypad isn't locked.

2.	¥	<u> </u>	Touch the UP or DOWN key within 15s to select the label "rH".
3.	29	SET	Touch the SET key for 2s until the display shows the right label for the function (only touch the key to see the function activated).
	LAB.	DESCRIPTION	NC
	rhL	low humidit	y function (evaporator fan with F17 and F18 if the compressor is
		off, on if the	e compressor is on)
	rhH	high humidi	ity function (evaporator fan on)
		ans I	Touch the ON/STAND-BY key (or do not operate for 60s) to exit

Touch the DOWN key for 1s.

## 5.4 View/delete HACCP alarm information (not available in EVLJ224 and EVLJ225) Check that the keypad isn't locked.

1.	\	V	Touch the DOWN key for 1s.					
2.	f	<u> </u>	Touch the UP or DOWN key within 15s to select a label.					
	LAB.	DESCRIPTION	ON					
	LS	view HACCF	Palarm information					
	rLS	delete HAC	CP alarm information					
3.	1 29	5ET	Touch the SET key.					
4.	<b>1</b>	<u> </u>	Touch the UP or DOWN key to select an alarm code (to select label "LS") or to set "149" (to select label "rLS").					
	COD.	DESCRIPTION	NC					
	AL	low tempera	ature alarm					
	АН	high tempe	erature alarm					
	id	open door a	alarm (if i4 = 1)					
	PF	1.	re alarm (available in EVLJ234 and EVLJ235 or in EVLJ224 and th interface EVIF25TBX connected)					
5.	1 29	5€T	Touch the SET key.					

Touch the ON/STAND-BY key (or do not operate for 60s) to exit

Example of alarm information (e.g. a high temperature alarm)

	8.0		critical value (calculated cabinet/product temperature)
_			was 8.0 °C/°F
	Sta	(available	e in EVLJ234 and EVLJ235 or in EVLJ224 and EVLJ225 with
		interface	EVIF25TBX connected)
		y15	alarm signalled in 2015
		n03	alarm signalled in March
		d26	alarm signalled on 26 March 2015
		h16	alarm signalled at 16:00
		n30	alarm signalled at 16:30
	dur		
		h01	alarm lasted 1h
		n15	alarm lasted 1h 15min

# 5.5 View/delete compressor functioning hours

Check that the keypad isn't locked.

2.

`	✓	Touch the DOWN key for 1s.
Ý	<u> </u>	Touch the UP or DOWN key within 15s to select a label.
LAB.	DESCRIPTION	ON
CH1	view compr	essor functioning hundreds of hours
CH2	view second	d compressor functioning hundreds of hours (if u1c u5c = 1)
rCH	delete comp	pressor and second compressor functioning hours

The content of the	EVCO S.	p.A.   EVBOX L	_ight J2	00   Instruction sheet ver. 1.0   Code	le 104LJ200I103   Page 2 of 3   PT 38/22	2	9	P4	0	configurable input function	0 = digital input		63	A8	15	high temperature alarm delay	0 240 min
The content of the property	4.	√ \	وا حا	Touch the UP or DOWN key to s	set "149" (to select rCH).						2 = critical temperature probe		64	A9	15	high temperature alarm delay	0 240 min
The content of the	5	Laser	<u>.                                    </u>	Touch the SET key	<u> </u>						4 = evaporator 2 probe		65	A10	10	power failure duration for alarm	0 240 min
1.		1 (1)	<u> </u> 	,	(or do not operate for 60s) to exit						= product temperature (CPT)						
The content of the	6.		I	the procedure.			10	P5	0	value displayed			66	A11	2.0		1 15 °C/°F
The content of the													67	A12	1		
Fight   Processing   Company   Com	1.	V					11	P7	50	inlet air weight for calculated	· · · · · · · · · · · · · · · · · · ·					I	buzzer 2 = HACCP LED + PF label +
March   Company   March   March   Company   March	2.	√ _ ^ 8	<u>و</u> ح	Touch the UP or DOWN key with	hin 15s to select a label.					J	CPT = { [(P7 x (inlet air T)] +		N	DAD	DEE	FANC	buzzer (if duration > A10) MIN MAX.
March   Marc		<del>                                     </del>					10	DO.	_	diaday afaab Alaa	100}		-			evaporator fan mode during	0 = off $1 = on$
The part		1 PD1				-	N.	PAR.	DEF.	REGULATION	MIN MAX.					normal operation	2 = on if compressor on 3 = thermoregulated (with
	- 1	<del> </del>		· · · · · · · · · · · · · · · · · · ·			13	r0	2.0	setpoint differential							regulation temperature + F1)
The content of the		Pb4 calcu	ulated p	product temperature (CPT; if P4 =	= 3)		14	r1	-40	minimum setpoint							4 = thermoregulated (with regulation temperature
The content of the	3.	aset			( ) ( ) ( ) ( ) ( )		-		_	·							+ F1) if compressor on 5 = according to F6
The content of the	4.			-	(or do not operate for 60s) to exit	*	17	r4	0.0	setpoint offset in energy saving	0 99 °C/°F						6 = thermoregulated (with F1) 7 = thermoregulated (with
	6	SETTINGS						rъ			1 = heating				4.0		F1) if compressor on
The content of the	6.1	l .	figurat 		display will show the label "PA"		19	r6	0.0	l '	0 99 °C/°F					operation	-99 99 °C/°F
The content of the	1.		<u>                                     </u>	-	aispiay will show the laber FA .		-						70	F2	0	· •	0 = off 1 = on 2 = according to F0
1	2.				within 15s to set the BAS value				DEE		1 = symmetric		71	F3	2	· .	0 15 min
	3.		·   •	(default "-19").			_	_		compressor on delay after			72	F4	30	· •	0 240 s x 10 if F0 ≠ 5
	4.	1			operate for 15s): the display will		23	C1	5	1.	0 240 min		73	F5	30	evaporator fan on time during	0 240 s x 10
	5.	√ \^ 8	ا ا	Touch the UP or DOWN key to s	select a parameter.		24	C2	3		0 240 min		74	F6	0		0 = low humidity (with F17
	6.	aset		Touch the SET key.			-			<del>  '</del>		Ş					and F18 if compressor off, on if compressor on)
	7.	√ _ ^ 8	﴿ ا	Touch the UP or DOWN key with	hin 15s to set the value.					cabinet probe alarm			75	F7	5.0	threshold for evaporator fan on	1 = high humifity (on) -99 99 °C/°F
	8.	_ aset	1	Touch the SET key (or do not o	perate for 15s).					cabinet probe alarm						after dripping (relative to	
The control of the	9.	1	<u>.                                      </u>	Touch the SET key for 4s (or d	· · · · · · · · · · · · · · · · · · ·					warning	differential = 2 °C/4 °F		76	F8	2.0	threshold for evaporator fan	1 15 °C/°F
1	l	•	ı			o		C7	90.0	_	0 199 °C/°F		77	F9	10	evaporator fan off delay after	
				•			_	_		-			78	F10	1	·	
The state of the		N.B.								·	0 = disabled						1 = thermoregulated (with F11) if compressor off,
March   100   10	,						-		_	compressor hours weight for	0 10						on if compressor on 2 = thermoregulated (with
A	<b>~</b> ≎	week.								_	hours)] + [C13 x						F11) if compressor off, on if compressor on, off
							34	C13	1	compressor hours switch-ons for							during defrost, pre- dripping and dripping
	Check tl	hat the keypa	ad isn't	locked.						_			79	F11	15.0	threshold for condenser fan on	0 99 °C/°F differential = 2 °C/4 °F
1	1.	I ∨		Touch the DOWN key for 1s.			35	C14	1	tie between compressors			80	F12	30	_	0 240 s
Description   Company of the product of the control when the value of the land and any of the control when	2.	√ \ \^ 8	﴿ ا	Touch the UP or DOWN key with	hin 15s to select the label "rtc".					·	1 = according to r0		81	F17	60	'	if P4 ≠ 1 0 240 s
	3.	≙ SET		1	-		_		_	· ' '	0 99 h		82	F18	10	-	0 240 s
Report School and it to do the most below.   1	4.	√ _ ^ 8	ا حا								,		N	PAR	DEF	·	MIN MAX.
2	5.	Repeat action	ns 3 a	nd 4 to set the next labels.			37	d1	0	defrost type			-				0 = disabled
1	-	<u> </u>			HE LABEL		38	d2	2.0	threshold for defrost end							1 = compressor + evaporator fan off
The control of the				· · · · · · · · · · · · · · · · · · ·			_	_			0 99 min						2 = evaporator fan off 3 = cabinet light on
		h time	(00	23)					_	· · · · · · · · · · · · · · · · · · ·	0 = no 1 = yes						4 = compressor + evaporator fan off,
1			1	Touch the SET key: the display	/ will show the label for the day of		_	_		· · ·							cabinet light on 5 = evaporator fan off +
March   Section   Sectio	7		1		within 15s to set the day of the								84	i1	0	door switch input activation	cabinet light on 0 = with contact closed
1	··	LAB. DESC	CRIPTI						_	1 '' "						·	1 = with contact open
The Control of the										don'est interval edunting mede	1 = compressor on hours						-1 120 min -1 = disabled
Set		UEd Wedr	nesday	1							temperature < d9		86	i3	15	_ ~	-1 120 min -1 = until the closing
A Set   Touch the SET key to early the device will exist the procedure beforeholded   A Set   Touch the SET key to early the device will exist the procedure beforeholded   A Set   Touch the SET key to deal the procedure beforeholded   A Set   Touch the SET key to deal the procedure beforeholded   A Set   Touch the SET key to deal the device of the libel *PA*.											device on hours)		87	i4	0	l '	0 = no $1 = yesif i2 \neq -1 and after i2$
A SET   Touch the SCT key; the device will exist the procedure beforehand.   1	ŀ	<del>                                     </del>					45	d9	0.0	evaporation threshold for			88	i5	8	* '	0 = disabled
Continue the Collection of Parameters	8.	≙SET		Touch the SET key: the device	will exit the procedure.												1 = energy saving 2 = iA alarm
For Part Package withings of the factory settings are appropriate: see the section CONFIGURATION PARAMETERS    N B.	9.			Touch the ON/STAND-BY key to	o exit the procedure beforehand.	•,		_	_			<b>€</b>					3 = iSd alarm 4 = button-operated load 1 on
N.S. Check that the factory settings are appropriate: see the section CONFIGURATION PARAMETERS  1	ا د ع	Decet #1	ete-	settings						l '	if negative values, duration						5 = button-operated load 2 on
Check that the factory settings are appropriate: see the section COMFIGURATION PARAMETERS	0.3	1	согу				48	d16	0	1	11 0						6 = device on/off 7 = LP alarm
Parameterizes   Figure   Fig	O <sub>O</sub>	Check that		ctory settings are appropriate;	see the section CONFIGURATION		49	d18	40								8 = C1t alarm 9 = C2t alarm
1		PARAMETER:	S.								tor temperature < d22			i6	0	multi-purpose input activation	0 = with contact closed 1 = with contact open
Cellstvia to optimal evaporation temperature of 19   18   0   number of multi-purpose input or compressor on consecutive time or consecutive time for step of the SET key.	1.	_ a set	_[	Touch the SET key for 4s: the d	display will show the label "PA".		50	d19	3.0	threshold for adaptive defrost			90	i7	0	multi-purpose input alarm delay	0 120 min if i5 = 3 or 7, compressor on
5.   a SET   Touch the SET key (or do not operate for 15s): the display will show the label "dEF".  7.   a SET   Touch the SET key (or do not operate for 15s): the display will show the label "dEF".  8. Interrupt the power supply to the device.  9.   a SET   Touch the SET key (or do not operate for 15s).  8. Interrupt the power supply to the device.  9.   a SET   Touch the SET key (or do not operate for 15s).  8. Interrupt the power supply to the device.  9.   a SET   Touch the SET key for do not operate for 15s).  8. Interrupt the power supply to the device.  9.   a SET   Touch the SET key for do not operate for 15s).  8. Interrupt the power supply to the device.  9.   a SET   Touch the SET key for do not operate for 15s).  8. Interrupt the power supply to the device.  9.   a SET   Touch the SET key for do not operate for 15s).  8. Interrupt the power supply to the device.  9.   a SET   Touch the SET key for 2s before action 6 to exit the procedure beforehand.  9.   a SET   Touch the SET key for 2s before action 6 to exit the procedure beforehand.  9.   a SET   Touch the SET key for 2s before action 6 to exit the procedure beforehand.  9.   a SET   Touch the SET key for 2s before action 6 to exit the procedure beforehand.  9.   a SET   Touch the SET key for 2s before action 6 to exit the procedure beforehand.  9.   a SET   Touch the SET key for 2s before action 6 to exit the procedure beforehand.  9.   a SET   Touch the SET key for 2s before action 6 to exit the procedure beforehand.  9.   a SET   Touch the SET key for 2s before action 6 to exit the procedure beforehand.  9.   a SET   Touch the SET key for 2s before action 6 to exit the procedure beforehand.  9.   a SET   Touch the SET key for 6 defrost of the forest of t	2.	≙SET	Ī	Touch the SET key.						(relative to optimal evaporation			01	iΩ	0	number of multi-purpose instit	delay after alarm reset
A	3.	√ <u>^</u> 8	﴿ ا	Touch the UP or DOWN key with	hin 15s to set " <b>149</b> ".		51	d20	180	compressor on consecutive time	0 999 min		71	ю		activations for high pressure	
Second   S	4.			Touch the SET key (or do not			52	d21	200	compressor on consecutive time	0 500 min		92	i9	240	reset counter time for high	
1			<del></del>								setpoint) > 10°C/20 °F		93	i10	0	1	0 999 min
A				,	hin 15c to cot "#"		53	d22	-2.0	1 .						energy saving	after regulation temperature < SP
Touch the SET key (or do not operate for 15s).		<u>'</u>	1		·					, ,	1 '		94	i13	180	number of door openings for	0 = disabled 0 240
		•			perate for 15s).		54	d25	0	temperature)						defrost	0 = disabled
N.   PAR.   DEF.   SETPOINT   MIN MAX.   Second of the properties of the proper			- powe	Touch the SET key for 2s before	ore action 6 to exit the procedure					during evaporator probe alarm						defrost	0 = disabled
N. PAR. DEF. SETPOINT MIN MAX.    N. PAR. DEF. SETPOINT MIN MAX.   Select value for high/low temperature alarms   Select value for high/low temperature   Select value for high/low temperature   Select value for high/low temperature   Select value for high/low   Select value		<del>-</del>	•	beforehand.			75	u20	"	1	0 = only manual						MIN MAX.  O = first compressor
N. PAR. DEF. SETPOINT    Ni	7	CONFIGURA	TION	PARAMETERS			-		DEF.		MIN MAX.						<ul><li>1 = second compressor</li><li>2 = evaporator fan</li></ul>
N. PAR. DEF. ANALOGUE INPUTS  MIN MAX.  2 CA1 0.0 cabinet probe offset  -25 25 °C/°F  if P4 = 3, air in probe offset  -25 25 °C/°F  4 CA3 0.0 evaporator probe offset  -25 25 °C/°F  5 P0 1 probe type  0 = PTC 1 = NTC  6 P1 1 enable °C decimal point  0 = no 1 = yes  7 P2 0 temperature unit of 0 = °C 1 = °F  measurement  8 P3 1 evaporator probe function  0 = disabled  57 A1 0.0 threshold for low temperature -99 99 °C/°F  alarm  1 o disabled  1 = relative to setpoint  2 = absolute  0 = disabled  1 = relative to setpoint  2 = absolute  0 = disabled  1 = relative to setpoint  2 = absolute  1 = relative to setpoint  1 = relative to setpoint  2 = absolute  2 = absolute  3 = relative to setpoint  2 = absolute  1 = relative to setpoint  2 = absolute  1 = relative to setpoint  2 = absolute  3 = relative to setpoint  2 = absolute  3 = relative to setpoint  3 = relative to setpoint  2 = absolute  3 = relative to setpoint  4 = relative to setpoint  5	<b>V</b> ≣						56	A0	0		,						3 = condenser fan 4 = defrost
2 CA1 0.0 cabinet probe offset	•	N. PAR.		ANALOGUE INPUTS	MIN MAX.		57	A1	0.0	threshold for low temperature							5 = cabinet light 6 = demisting
3		2 CA1	0.0	cabinet probe offset			58	A2	0	<del> </del>		X					7 = door heaters
5 P0 1 probe type				<del>                                     </del>	-25 25 °C/°F	_					2 = absolute						8 = heater for neutral zone 9 = dripping heater
7 P2 0 temperature unit of 0 = °C 1 = °F	Q.	5 PO	1	probe type	0 = PTC 1 = NTC	70			0.0	alarm							10= button-operated load 1 11= button-operated load 2
8         P3         1         evaporator probe function         0 = disabled         61         A6         120         high temperature alarm delay 0 240 min         11 = absolute         15 =				temperature unit			60	A5	0	high temperature alarm type							12= alarm 13= on/stand-by
		8 P3	1				61	A6	120	high temperature alarm delay	2 = absolute						14= evaporator fan 2 15= defrost 2
1 = defrost + fan     after power-on       2 = fan     62 A7 15 high/low temperature alarms 0 240 min	_		_		1 = defrost + fan 2 = fan					after power-on			,				
62 A7 15 night/low temperature alarms 0 240 min							52	^′	'3		2 2.3 11111						

		=1.0001			
o s.	p.A.   97	u2c	Light J20	00   Instruction sheet ver. 1.0   Code 10 relay K2 configuration	0 = first compressor
					1 = second compressor 2 = evaporator fan
					3 = condenser fan 4 = defrost
					5 = cabinet light 6 = demisting
					7 = door heaters
					8 = heater for neutral zone 9 = dripping heater
					10= button-operated load 1 11= button-operated load 2
					12= alarm
					13= on/stand-by 14= evaporator fan 2
	98	u3c	5	relay K3 configuration	15= defrost 2 0 = first compressor
					1 = second compressor 2 = evaporator fan
					3 = condenser fan 4 = defrost
					5 = cabinet light
					6 = demisting 7 = door heaters
					8 = heater for neutral zone 9 = dripping heater
					10= button-operated load 1 11= button-operated load 2
					12= alarm
					13= on/stand-by 14= evaporator fan 2
	99	u4c	2	relay K4 configuration	15= defrost 2 0 = first compressor
	77	u40	_	relay K4 comiguration	1 = second compressor
					2 = evaporator fan 3 = condenser fan
					4 = defrost 5 = cabinet light
					6 = demisting 7 = door heaters
					8 = heater for neutral zone
					9 = dripping heater 10= button-operated load 1
					11= button-operated load 2 12= alarm
					13= on/stand-by
					14= evaporator fan 2 15= defrost 2
	100	u5c	3		0 = first compressor 1 = second compressor
				EVLJ234)	2 = evaporator fan 3 = condenser fan
					4 = defrost
					5 = cabinet light 6 = demisting
					7 = door heaters 8 = heater for neutral zone
					9 = dripping heater 10= button-operated load 1
					11= button-operated load 2 12= alarm
					13= on/stand-by
	101	u2	0	enable cabinet light and button- operated load in stand-by	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no 1 = yes
	101	u2 u4	0	operated load in stand-by enable alarm output off silencing	13= on/stand-by 14= evaporator fan 2 15= defrost 2
				operated load in stand-by	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102	u4	1	operated load in stand-by enable alarm output off silencing the buzzer	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102	u4 u5	1 -1.0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105	u4 u5 u6 u7	1 -1.0 5 -5.0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
16	102 103 104	u4 u5 u6 u7 u9 PAR.	1 -1.0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
Ð	102 103 104 105	u4 u5 u6 u7	1 -1.0 5 -5.0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
<u> </u>	102 103 104 105 106 N. 107	u4 u5 u6 u7 u9 PAR. HrO	1 -1.0 5 -5.0 1 DEF. 0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225) ENERGY SAVING (if r5 = 0)	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
_	102 103 104 105 106 N. 107	u4 u5 u6 u7 u9 PAR.	1 -1.0 5 -5.0 1 DEF. 0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
_	102 103 104 105 106 N. 107 N.	u4 u5 u6 u7 u9 PAR. Hr0 PAR. HE2	1 -1.0 5 -5.0 1 DEF. 0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVIJ224 and EVIJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
_	102 103 104 105 106 N. 107 N. 108 N.	u4 u5 u6 u7 u9 PAR. HrO PAR. HE2 PAR.	1 -1.0 5 -5.0 1 DEF. 0 DEF.	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving maximum duration	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
_	102 103 104 105 106 N. 107 N. 108 N. 109 110 N.	u4 u5 u6 u7 u9 PAR. Hr0 PAR. HE2 PAR. H01 H02 PAR.	1 -1.0 5 -5.0 1 DEF. 0 DEF. 0 DEF. h-	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
Φ,	102 103 104 105 106 N. 107 N. 108 N. 109 110	u4 u5 u6 u7 u9 PAR. Hr0 PAR. HE2 PAR. H01 H02 PAR.	1 -1.0 5 -5.0 1 DEF. 0 DEF. 0 DEF.	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer  REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225)  ENERGY SAVING (if r5 = 0) energy saving maximum duration  REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving maximum duration  REAL TIME DEFROST (if d8 = 4)	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
Φ,	102 103 104 105 106 N. 107 N. 108 N. 109 110 N.	u4 u5 u6 u7 u9 PAR. Hr0 PAR. HE2 PAR. H01 H02 PAR. H01 H01 H02	1 -1.0 -5 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVL1224 and EVL1225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving time energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 4th daily defrost time	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
Φ,	102 103 104 105 106 N. 107 N. 108 N. 110 N. 111 112 113 114 115 116	u4 u5 u6 u7 u9 PAR. Hr0 Hr0 H01 H02 PAR. Hd1 Hd2 Hd3 Hd4 Hd5 Hd6	1 -1.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225)  ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
Φ,	102 103 104 105 106 N. 107 N. 108 N. 110 N. 111 112 113 114 115	u4 u5 u6 u7 u9 PAR. Hr0 HR2 PAR. HG1 HG2 PAR. Hd1 Hd2 Hd3 Hd4 Hd5	1 -1.0 -5 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105 106 N. 107 N. 108 N. 110 N. 111 112 113 114 115 116 N.	u4  u5  u6  u7  u9  PAR.  HF0  PAR.  HE2  PAR.  H01  H02  PAR.  Hd1  Hd2  Hd3  Hd4  Hd5  PAR.  Sd0  Sd1	1 -1.0 -5 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time RESERVED reserved	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105 107 N. 108 N. 110 110 111 112 113 114 115 116 N. 117 118	u4  u5  u6  u7  u9  PAR.  HF0  HF2  PAR.  H61  H02  Hd3  Hd4  Hd5  Hd6  PAR.  Sd0  Sd1  Sd2  Sd3	1 -1.0 -5 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time 6th daily defrost time RESERVED reserved reserved reserved reserved	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105 106 N. 107 N. 108 N. 119 111 112 113 114 115 116 N. 117	u4  u5  u6  u7  u9  PAR.  HF0  PAR.  HE2  PAR.  H01  H02  Hd3  Hd4  Hd5  Hd6  Hd6  Sd0  Sd1  Sd2	1 -1.0 -5 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time RESERVED reserved reserved reserved	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105 106 N. 107 108 N. 109 110 111 111 111 1115 1116 N. 117 1118 119 120 121	u9 РАК. НС2 РАК. Н61 Н02 Н43 Н44 Н45 Н46 РАК. Н65 S40 S41 S42 S43	1 -1.0 -5 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time RESERVED	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105 106 N. 107 N. 108 N. 119 110 N. 111 112 113 114 115 116 N. 117 118 119 120 121 N. 123 124	u9 РАК. Н62 РАК. Н01 Н02 РАК. Н403 Н404 Н45 S40 S41 S402 S43 S44 PAR. PAR.	1 -1.0 -5 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving ime energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time RESERVED reserved reserved reserved reserved reserved reserved SAFETIES enable ON/STAND-BY key enable keypad lock	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105 107 N. 108 N. 110 111 112 113 114 115 116 N. 117 118 119 120 121 122 N.	u4  u5  u6  u7  u9  PAR.  Hг0  H01  H02  PAR.  Hd1  Hd2  Hd3  Hd4  Hd5  Hd6  PAR.  Sd0  Sd1  Sd2  Sd3  Sd4  Sd5  PAR.  POF	1 -1.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time RESERVED	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105 107 N. 108 N. 110 111 112 113 114 115 116 N. 117 118 119 120 121 122 N. 121 123 124 125 126 127	и4  и5  и6 и7  и9 РАЯ. НЕ2 РАЯ. Н61 Н02 Н43 Н44 Н45 Н466 РАЯ. S40 S41 S42 S43 S44 S45 S47 S47 S47 PAR.	1 -1.0 -5 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVILJ224 and EVILJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time 6th daily defrost time RESERVED	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105 106 N. 107 108 N. 110 111 112 113 114 115 116 N. 117 118 119 120 121 122 N. 123 124 125 126 127 N. 128	u4  u5  u6  u7  PAR.  H10  H22  PAR.  H3  H41  H42  H43  H44  H55  H66  PAR.  Sd0  Sd1  Sd2  Sd3  Sd4  Sd5  PAR.  POF  Loc  PAR.  POF  Loc  PAR.  PAS  PAS  PAS  PAS  PAS  PAS  PAS  PA	1 -1.0 -5 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225)  ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving time energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 4th daily defrost time 4th daily defrost time RESERVED	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105 106 N. 107 108 N. 109 110 111 112 113 114 115 116 N. 117 111 122 N. 123 N. 124 125 126 127 N.	U4  U5  U6  U7  PAR. HC2  PAR. H61  H02  Hd3  Hd4  Hd5  Hd6  PAR. Sd0  Sd1  Sd2  Sd3  Sd4  Sd5  PAR. POF  Loc  PAS. PAS.	1 -1.0 -5 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVL1224 and EVL1225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving minum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 4th daily defrost time 4th daily defrost time 6th daily defrost time RESERVED	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105 106 N. 107 108 N. 110 111 112 113 114 115 116 N. 117 118 119 120 121 122 N. 123 124 125 126 127 N. 128	u4  u5  u6  u7  PAR.  H10  H22  PAR.  H3  H41  H42  H43  H44  H55  H66  PAR.  Sd0  Sd1  Sd2  Sd3  Sd4  Sd5  PAR.  POF  Loc  PAR.  POF  Loc  PAR.  PAS  PAS  PAS  PAS  PAS  PAS  PAS  PA	1 -1.0 -5 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225)  ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving time energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 4th daily defrost time 4th daily defrost time RESERVED	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105 106 N. 107 108 N. 110 111 112 113 114 115 116 N. 117 118 119 120 121 122 N. 123 124 125 126 127 N. 128 129	u9 РАК. НС2 РАК. Н61 Н02 Н43 Н44 Н45 Н46 РАК. 540 S41 S42 S43 S44 S45 S42 S43 S44 S45 S42 S47 S48 PAR. POF PAR.	1 -1.0 5 -5.0  1 DEF. 0 DEF. 0 DEF. h- h- h- h- per DEF. 1 1 -19 426 824 DEF. 60 4	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVL1224 and EVL1225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving time energy saving minum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time RESERVED level 1 password level 2 password DATA-LOGGING EVLINK data-logger sampling interval recorded temperature	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105 107 N. 108 N. 110 111 111 112 113 114 115 116 N. 117 118 119 120 121 122 N. 123 124 125 126 127 N. 128 129 N. 130	и4  и5  и6 и7  и9 РАК. НЕ2 РАК. Н61 Н02 РАК. Н61 Н03 Н04 Н05 S01 S04 S04 S04 S05 PAR. POF L00 PAR. PAR. PAR. POF L00 PAR. PAR. POF L00 PAR. PAR. PAR. PAR. PAR. PAR. PAR. PAR.	1 -1.0 5 -5.0  1 DEF. 0 DEF. 0 DEF. h- h- h- h- per DEF. 1 1 1 -19 426 824 DEF. 60 4	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time RESERVED level 2 password DATA-LOGGING EVLINK data-logger sampling interval recorded temperature	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105 106 N. 107 108 N. 109 110 111 112 113 114 115 116 N. 117 112 122 N. 123 124 125 126 127 N. 128 129 N.	и4  и5  и6 и7  и9 РАК. Н10	1 -1.0 5 -5.0  1 DEF. 0 DEF. 0 DEF. h- h- h- h- per DEF. 1 1 1 1 1 9 426 824 DEF. 60 4	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time RESERVED level 2 password level 2 password DATA-LOGGING EVLINK data-logger sampling interval recorded temperature	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105 107 N. 108 N. 110 111 111 112 113 114 115 116 N. 117 118 119 120 121 122 N. 123 124 125 126 127 N. 128 129 N. 130	и4  и5  и6 и7  и9 РАК. НЕ2 РАК. Н61 Н02 РАК. Н61 Н03 Н04 Н05 S01 S04 S04 S04 S05 PAR. POF L00 PAR. PAR. PAR. POF L00 PAR. PAR. POF L00 PAR. PAR. PAR. PAR. PAR. PAR. PAR. PAR.	1 -1.0 5 -5.0  1 DEF. 0 DEF. 0 DEF. h- h- h- h- per DEF. 1 1 1 -19 426 824 DEF. 60 4	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time RESERVED level 2 password DATA-LOGGING EVLINK data-logger sampling interval recorded temperature	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105 107 N. 108 N. 110 111 111 112 113 114 115 116 N. 117 118 119 120 121 122 N. 123 124 125 126 127 N. 128 129 N. 130	и4  и5  и6 и7  и9 РАК. НЕ2 РАК. Н61 Н02 РАК. Н61 Н03 Н04 Н05 S01 S04 S04 S04 S05 PAR. POF L00 PAR. PAR. PAR. POF L00 PAR. PAR. POF L00 PAR. PAR. PAR. PAR. PAR. PAR. PAR. PAR.	1 -1.0 5 -5.0  1 DEF. 0 DEF. 0 DEF. h- h- h- h- per DEF. 1 1 1-19 426 824 DEF. 60 4	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 3rd daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time RESERVED level 2 password DATA-LOGGING EVLINK data-logger sampling interval recorded temperature	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no
	102 103 104 105 107 N. 108 N. 109 110 111 112 113 114 115 116 N. 117 118 119 120 121 122 N. 121 122 N. 123 124 125 126 127 N. 128 129 N. 130 131	ич  ич  ич  ич  ич  ич  ич  ич  рак.  ни  ни  ни  ни  ни  ни  ни  ни  ни  н	1 -1.0 -5 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0 -5.0	operated load in stand-by enable alarm output off silencing the buzzer threshold for door heaters on  demisting on duration neutral zone threshold for heating (relative to setpoint)  enable alarm buzzer REAL TIME CLOCK enable clock (default 0 in EVLJ224 and EVLJ225) ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME ENERGY SAVING (if r5 = 0) energy saving maximum duration REAL TIME DEFROST (if d8 = 4) 1st daily defrost time 2nd daily defrost time 3rd daily defrost time 4th daily defrost time 5th daily defrost time 6th daily defrost time RESERVED re	13= on/stand-by 14= evaporator fan 2 15= defrost 2 0 = no

0	ALARMS					
8	ALARIVIS					
COD.	DESCRIPTION	RESET		TO CORRECT		
Pr1	cabinet probe alarm	automatic		- check P0		
Pr2	evaporator probe alarm	automatic		- check probe integrity		
Pr3	auxiliary probe alarm	automatic		- check electrical connection		
rtc	clock alarm	manual		set date, time and day of the week		
AL	low temperature alarm	automatic		check A0, A1 and A2		
АН	high temperature alarm	automatic		check A4 and A5		
id	open door alarm	automatic		check i0 and i1		
PF	power failure alarm	manual		- touch a key		
				- check electrical connection		
сон	high condensation warning	automatic		check C6		
CSd	high condensation alarm	manual		- switch the device off and on		
				- check C7		
Α	multi-purpose input alarm	automatic		check i5 and i6		
iSd	high pressure alarm manual			- switch the device off and on		
				- check i5, i6, i8, i9		
LP	low pressure alarm	automatic		check i5 and i6		
C1t	compressor thermal switch	automatic		check i5 and i6		
	alarm					
C2t	second compressor thermal	automatic		check i5 and i6		
	switch alarm					
dFd	defrost timeout alarm	manual		- touch a key		
	1	1	- check d2, d3 and d11			
9	TECHNICAL SPECIFICATION	NS				
Purpo	se of the control device		Function controller			
Const	ruction of the control device		Built-in electronic device			
Conta	iner		White, self-extinguishing			
Categ	ory of heat and fire resistance		D			
Measurements			150.0 x 245.0 x 88.6 mm (5 5/16 x 9 5/8 x			
			3 1/2 in)			
Mounting methods for the control device				To be fitted on-board, fixing screws no		
				provided		
Degree of protection provided by the			IP65			
coveri	ng					
-	ection method					
Conne	Fixed screw terminal blocks for wires up to			Micro-MaTch connector		
	screw terminal blocks for wir-					
Fixed 2.5 m	m²					
Fixed 2.5 m		ction cabl	es			
Fixed 2.5 m Maxim	m²	ction cabl		gue inputs: 10 m (32.8 ft)		
Fixed 2.5 m Maxim Power	m² num permitted length for conne	ction cabl	Analo	gue inputs: 10 m (32.8 ft) I outputs: 10 m (32.8 ft)		
Fixed 2.5 m Maxim Power Digita	m <sup>2</sup> num permitted length for conne supply: 10 m (32.8 ft)	ction cabl	Analo Digita			
Fixed 2.5 m Maxim Power Digita Opera	m <sup>2</sup> num permitted length for conne supply: 10 m (32.8 ft) I inputs: 10 m (32.8 ft)	ction cabl	Analo Digita From	l outputs: 10 m (32.8 ft)		

			- chec	k d2, d3 and d11		
9 TECHNI	ICAL SPECIFIC	ATIONS				
Durnage of the	control device		Function controller			
Purpose of the Construction o	f the control dev	/ice	Built-in electronic device			
Container			White, self-extinguishing			
	at and fire resis	tance	D			
Measurements			150.0 x 245.0 x 88.6 mm (5 5/16 x 9 5/8 : 3 1/2 in)			
Mounting meth	nods for the cont		To be fitted on-board, fixing screws no provided			
Degree of p	orotection prov	vided by the	IP65			
Connection me			I			
2.5 mm <sup>2</sup>	erminal blocks f					
	nitted length for	connection cabl		ts: 10 m (22 9 ft)		
Power supply: Digital inputs:				ts: 10 m (32.8 ft) :: 10 m (32.8 ft)		
Operating tem				°C (from 23 to 131 °F)		
Storage tempe	erature		From -25 to 70 °C (from -13 to 158 °F)			
Operating hum	nidity		Relative humidity without condensate from 10 to 90%			
	s of the control of	device	2			
Conformity RoHS 2011/65	/CF		WEEE 2012/19/EU			
	egulation 1907/2	2006	LVD 2014/35/UE			
Power supply	3		,			
230 VAC (+10 max. 6 VA insu	)% -15%), 50/6 ulated	oO Hz (±3 Hz),	115 230 VAC (+10% -15%), 50/60 Hz (± Hz), max. 6 VA insulated in EVLJ225 wit			
Earthing metho	ods for the contr	ol device	compressor relay rated 16 A res. @ 250 VAC None			
	-withstand volta		2.5 KV			
Over-voltage of	ategory		II			
Software class	and structure		Α			
Clock			Incorporated secondary lithium battery (cloc not available in EVLJ224 and EVLJ225)			
Clock drift			≤ 60 s/month at 25 °C (77 °F)			
power supply	autonomy in the	e absence of a	> 24 h at 25 °	C (// °F)		
Clock battery of	charging time		24 h (the bat	ttery is charged by the powe		
Analogue input		_	supply of the device)			
Arialogue Iripu	outs		2 for PTC or NTC probes (cabinet probe and evaporator probe)			
PTC probes	Sensor type		KTY 81-121 (990 Ω @ 25 °C, 77 °F)			
	Measurement f	field	From -50 to 150 °C (from -58 to 302 °F)			
NEO	Resolution		0.1 °C (1 °F)			
NTC probes	Sensor type	field	B3435 (10 K□Ω @ 25 °C, 77 °F)			
	Resolution	leasurement field		From -40 to 105 °C (from -40 to 221 °F)  0.1 °C (1 °F)		
Digital inputs			1 dry contact (	(door switch)		
Dry contact		Contact type	•	5 VDC, 2 mA		
		Power supply		None		
		Protection	None			
			rable for analogue input (auxiliary probe) o nulti-purpose input)			
Digital outputs				) with electro-mechanical relay		
Relay K1			SPST, 16 A res. @ 250 VAC			
			SPST, 30 A res	s. @ 250 VAC in EVLJ225N9V3		
Relay K2			SPDT, 8 A res. @ 250 VAC			
Relay K3			SPST, 8 A res. @ 250 VAC			
Relay K4		E) (1 100 t	SPST, 5 A res. @ 250 VAC			
EVLJ234)	ot available in	EVLJ224 and	SPST, 5 A res.	@ 250 VAC		
	arantees double	insulation betw	ı een each digital	output connector and the res		
_	ents of the devic		3			
Type 1 or Type	e 2 Actions		Type 1			
Additional fea	tures of Type	1 or Type 2	С			
actions Displays			LED custom display, 3 digit, with function			
			icons			
Alarm buzzer			Incorporated			
Incorporated s	ensors:		Bluetooth Low Energy (available in EVLJ23-			
Communications ports			and EVLJ235).  1 TTL MODBUS slave port for EVconnect AP			
			or BMS.			
10 SIMPLI	FIED EU DECLA	ARATION OF C	ONFORMITY			
EVCO S n A de	eclares that the	type of radio og	uinment.			

EVCO S.p.A. declares that the type of radio equipment:
- FVI I234N7VXRXV

EVLJ234N7VXRXVEVLJ235N7VXRXV

- EVLJ235N/VXRXV complies with directive 2014/53/EU and directive 2011/65/EU.

The full text of the EU declaration of conformity is available at the following internet address: https://www.evco.it/en/16137-evbox-light-j200-js200

For EVLJ234 and EVLJ235 According to European R&TTE Declaration of Conformity this device can be used in the following Countries: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Norway, Poland Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland, The Netherlands and The United Kingdom.



The device must be disposed of according to local regulations governing the collection of electrical and electronic waste.

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